ABSTRACT

In a satellite communications system, a flywheel timing value generating method includes generating flywheel timing values based on a satellite drift over a predetermined time. This drift can be a satellite drift in the north / south direction, measured over a sidereal day. By measuring and recording prior drift history in a normal operation, predicted receive and transmit delay times are calculated in order to generate a start of receive control frame and a start of transmit control frame used in a flywheel operation.